

SEQUENCE LISTING

<110> The Procter & Gamble Company

<120> HAIRLESS PROTEIN-INTERACTING PARTNER COMPLEXES AND METHODS
THEREOF FOR THE BEAUTIFICATION
AND/OR IMPROVEMENT OF MAMMALIAN SKIN

<130> 9423

<160> 16

<170> PatentIn version 3.2

<210> 1

<211> 660

<212> DNA

<213> Homo sapiens

<400> 1

gccctcctgg aggtatccaa gaggtcactg tcaaccagag tctcctgact cccctcaacc

60

tgcaaatcga ccccgagcatc cagaggggtga ggaccgagga gcgcgagcag atcaagaccc

120

tcaacaataa gtttgcttcc ttcacgcaca aggtgcggtt cctggagcag cagaacaagg

180

ttctggacac caagtggacc ctgctgcagg agcagggcac caagaccgtg aggcagaacc

240

tggagccgtt gttcgagcag tacatcaaca acctcaggag gcagctggac agcatcgtgg

300

gggaacgggg ccgcctggac tcagagctaa gaaacatgca ggacctggtg gaagacttca

360

agaacaagta tgaggatgaa atcaacaagc gtaccactgc tgagaatgag tttgtgatgc

420

tgaagaagga tgtagatgct gcctacatga acaaggtgga gctggaggcc aaggttgatg
480

cactgatgga tgagattaac ttcatgaaga tggtctttga tgcggagctg tcccagatgc
540

agacgcatgt ctctgacacc tcagtgggtcc tctccatgga caacaaccgc aacctggacc
600

tggatagcat catcgctgag gtcaaggccc agtatgagga gattgccaac cgcagccgga
660

<210> 2
<211> 746
<212> DNA
<213> Homo sapiens

<400> 2
aagattcgga aacagcagca gcaggagtca cagtcacagt cgcagtcacc tgtggggccg
60

cagggcagca gcagctcagc ctctgggcct ggggcttccc ctggtggatc tgaggcaggc
120

agccagggct ccggggaagg cgaggggtgtc cagctaacag cggctcaaga actaatgatc
180

cagcagttgg tggcggccca actgcagtgc aacaaacgct ccttctccga ccagcccaaa
240

gtcacgccct ggcccctggg cgcagacccc cagtcccag atgcccgcca gcaacgcttt
300

gcccacttca cggagctggc catcatctca gtccaggaga tcgtggactt cgctaagcaa
360

gtgcctggtt tctgcagct gggccgggag gaccagatcg cctcctgaa ggcattccact

420

atcgagatca tgctgctaga gacagccagg cgctacaacc acgagacaga gtgtatcacc

480

ttcttgagga cttcacctac agcaaggacg acttccaccg tgcaggcctg caggtggagt

540

tcatcaaccc catcttcgag ttctcgcggg ccatgcggcg gctgggcctg gacgacgctg

600

agtaagccct gctcatcgcc atcaacatct tctcggccga cgggcccaac gtgcaggagc

660

cgggccgcgt ggaggcggtg cagcagccct acgtggaggc gctgctgtcc tacacgcgca

720

tcaagaggcc gcaggaccag ctgcgc

746

<210> 3

<211> 705

<212> DNA

<213> Homo sapiens

<400> 3

gcggaactaa agcaaattggg tatgagcctt agagtttctg aactccaagt actgttgggc

60

tacgccggga gaaacaagca cggacgcaaa cacgaacttc tcacaaaagc cctgcatttg

120

ctaaaggctg gctgtagtcc tgctgtgcaa atgaaaatta aggaactcta taggcggcgg

180

ttccacaga aaatcatgac gcctgcagac ttgtccatcc ccaacgtaca ttcaagtcc

240

atgccagcaa ctttgtctcc atctaccatt ccacaactca cttacgatgg tcaccctgca

300

tcacgccat tactccctgt ttctcttctg ggacctaaac atgaactgga actcccacat

360

cttacatcag ctcttcaccc agtccatccg gatataaaac ttcaaaaatt accattttat

420

gatttactgg atgaactgat aaaaccaccc agtctagcat cagacaacag tcagcgcttt

480

cgagaaacct gttttgcatt tgccttgaca ccacaacaag tgcagcaaat cagtagttcc

540

atggatattt ctgggaccaa atgtgacttc acagtacagg tccagttaag gttttgttta

600

tcagaaacca gttgtccaca agaagatcac ttcccaccca atctttgtgt gaaagtgaat

660

acaaaacctt gcagccttcc aggttacctt ccacctacaa aaaat

705

<210> 4

<211> 792

<212> DNA

<213> Homo sapiens

<400> 4

gagagtgctc tgattgaaat aatgctttgt accattagac aagcggctga atgtcatcct

60

cccgtgggaa gagggacagg aaaaaggggtg cttacagcaa aggagaagaa gacacagttg

120

gatgatagga caaaaatcac tgagcttttt gccgtggccc ttcctcagtt attagcaaaa
180

tactctgtag atgcagaaaa ggtgactaac ttgttgcaagt tgcctcagta ctttgatttg
240

gaaatatata ccactggacg attagaaaag catttggaatg ccttattgag acagatccgg
300

aattattgtag agaagcacac agatacagat gttttggaag catgttctaa aacttaccat
360

gcactctgta atgaagagtt cacaatcttc aacagagtag atatttcaag aagtcaactg
420

atagatgaat tggcagataa atttaaccgg cttcttgaag attttctgca agagggtgaa
480

gaacctgatg aagatgatgc atatcaggta ttgtcaacat tgaagaggat cactgctttt
540

cataatgcc atgacctttc aaagtgggat ttatttgctt gtaattacaa actcttgaaa
600

actggaatcg aaaatggaga catgcctgag cagattgtta ttcacgcact gcagtgtact
660

cactatgtaa tcctttggca acttgctaag ataactgaaa gcagctctac aaaggaggac
720

ttgctgcgtt taaagaaaca aatgagagta ttttgtcaga tatgtcaaca ttacctgacc
780

aacgtgaata ct

792

<210> 5
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 5
 actgaagcag gtgatgactg gaaaagtcag gctactctaa ggacatgtat tttcaaacat
 60
 catttggatt tgggtcacaa tagccaagca tatgaagcct taacccaaat tcctgattcc
 120
 agcaggcaat tagattgttt acggcagttg gtggtagtcc tttgtgaacg ctcacagcta
 180
 caggatcttg tagagtttcc ctatgtgaat ctgcataatg aggttgtggg aataattgag
 240
 tcacgtgcta gagctgtgga ccttatgact cacaattact atgaacttct gtatgccttt
 300
 cacatctatc gccacaatta ccgcaaggct ggcacagtga tgtttgagta tggaatgcgg
 360
 cttggcagag aagttcgaac tctccgggga cttgagaaac aaggcaactg ttatctggct
 420
 gctctcaatt gtttacgact tattcgtcca gaatatgcgt ggattgtgca gccagtgtct
 480
 ggtgcagtgt atgatcgccc tggagcatcc cctaagagga atcatgatgg agaatgcaca
 540
 gctgccccca caaatcgaca aattgaaatc ctggaactgg aagatctgga gaaagagtgt
 600

tccttggctc gcacccgcct cactttggct cagcatgac catcagcggg tgcagttgct

660

ggaagtcat cagcagagga aatgggcact ctcttgggtc aggcgggcct ctttgacact

720

gccatatcac tctgtcagac ttttaag

747

<210> 6

<211> 683

<212> DNA

<213> Homo sapiens

<400> 6

cctgaccag tatgtagaag ccagtctctg caggcggcca gcgggacttt tggaggccca

60

gtgggcaggc caggcagggc gggtagcgag cctcccaggc tggggcagtg ggcattggca

120

ggggctgtgg ctgaagacct cggccgcca ctgcagacc caggggactc tcacaccgca

180

gctgcatgg ccaccaataa ggagcgactc tttgcggctg gtgccctggg gcctggatct

240

ggctaccag gggcagggtt ccccttcgcc ttcccagggg cactcagggg gtctccgcct

300

ttcgagatgc tgagccctag cttccggggc ctgggccagc ctgacctccc caaggagatg

360

gcctctctgt cgggtggagac acagagcacc agctcagagg agatgggtgcc cagctcgccc

420

tcgccccctc cgctcctcg ggtctacaag ccattgcttc tgtgcaatga caagtcctct

480

ggctaccact atgggggtcag ctcttgtgaa ggctgcaagg gcttcttttcg ccgaagcatc

540

cagaagaaca tgggtgtacac gtgtcaccgc gacaaaaact gtatcatcaa ,caaggtgacc

600

aggaatcgct gccagtactg ccggctacag aagtgccttcg aagtgggcat gtccaaggaa

660

gctgtgcgaa atgaccggaa caa

683

<210> 7

<211> 744

<212> DNA

<213> Homo sapiens

<400> 7

gtggagtgtg ggtcagaccc agaggagaac agtgccaggt caccagatgg aaagcgaaaa

60

agaaagaacg gccaatgttc cctgaaaacc agcatgtcag ggtatatccc tagttacctg

120

gacaaagacg agcagtgtgt cgtgtgtggg gacaaggcaa ctggttatca ctaccgctgt

180

atcacttgtg agggctgcaa gggcttcttt cgccgcacaa tccagaagaa cctccatccc

240

acctattcct gcaaatatga cagctgctgt gtcattgaca agatcacccg caatcagtgc

300

cagctgtgcc gcttcaagaa gtgcatcgcc gtgggcatgg ccatggactt ggttctagat

360

gactcgaagc ggggtggccaa gcgtaagctg attgagcaga accgggagcg gcggcggaag

420

gaggagatga tccgatcact gcagcagcga ccagagccca ctctgaaga gtgggatctg

480

atccacattg ccacagaggc ccatcgcagc accaatgccc agggcagcca ttggaaacag

540

aggcggaat tcctgcccga tgacattggc cagtcaccca ttgtctccat gccggacgga

600

gacaagggtgg acctggaagc cttcagcgag ttaccaaga tcatcaccac gcccatcacc

660

cgtgtggtgg actttgccaa aaaactgccc atgttctccg agctgccttg cgaagaccag

720

atcatcctcc tgaaggggtg ctgc

744

<210> 8

<211> 719

<212> DNA

<213> Homo sapiens

<400> 8

gcacagcgtc aacagatcaa agcagcatat ctccaggaaa caggaaagcc cctggatgaa

60

acactgaaga aagcccttac aggtcacctt gaggagggtg ttttagctct gctaaaaact

120

ccagcgcaat ttgatgctga tgaacttcgt gctgccatga agggccttgg aactgatgaa

180

gataactctaa ttgagatttt ggcatacaaga actaacaag aaatcagaga cattaacagg
240

gtctacagag aggaactgaa gagagatctg gccaaagaca taacctcaga cacatctgga
300

gattttcgga acgctttgct ttctcttgct aagggtgacc gatctgagga ctttggtgtg
360

aatgaagact tggctgattc agatgccagg gccttgatg aagcaggaga aaggagaaag
420

gggacagacg taaacgtgtt caataccatc cttaccacca gaagctatcc acaacttcgc
480

agagtgtttc agaaatacac caagtacagt aagcatgaca tgaacaaagt tctggacctg
540

gagttgaaag gtgacattga gaaatgcctc acagctatcg tgaagtgcgc cacaagcaaa
600

ccagctttct ttgcagagaa gcttcatcaa gccatgaaag gtggttggaaac tcgccataag
660

gcattgatca ggattatggg ttcccgttct gaaattgaca tgaatgatat caaagcatt
719

<210> 9
<211> 323
<212> DNA
<213> Homo sapiens

<400> 9
aagccctcgc tcccgggccc gtggggccgc agcgcgtggc cgaggcgggc ggcggccagc
60

tgggctccac agcccagggg aaatgtgata aagacaatac tgagaaagat ataactcaag

120

ctaccaatag ccacttcaca catggagaga tgcaagacca gtccatttgg ggaaatcctt

180

cggatggtga actcattaga acccaacctc agcgcttgcc tcagcttcag acttcagcac

240

aggtgccaaag tgggtgaggaa ataggcaaga taaagaacgg ccacacaggt ctgagcaatg

300

gaaatggaat tcaccacggg gcc

323

<210> 10

<211> 610

<212> DNA

<213> Homo sapiens

<400> 10

ccaggaggcg ccttggcgcg gtgcccaggc tgcgggcaag ggggtgcaggc gggttgtcca

60

gggggctgcg tggaggagga ggatgggggg tcgccagccg agggctgcbc ggaagctgag

120

ggctgtctca ggagggaggg gcaggagtgc ggggtctaca cccctaactg cgccccagga

180

ctgcagtgcc atccgccc aa ggacgacgag gcgcctttgc gggcgctgct gctcggccga

240

ggccgctgcc ttccggcccc gcgcctgct gttgcagagg agaatcctaa ggagagtaaa

300

ccccaagcag gactgcccc cccacaggat gtgaaccgca gagaccaaca gaggaatcca

360

ggcacctcta ccacgccctc ccagcccaat tctgcgggtg tccaagacac tgagatgggc

420

ccatgccgta gacatctgga ctcaagtgtg cagcaactcc agactgaggt ctaccgaggg

480

gctcaaacac tctacgtgcc caattgtgac catcgaggct tctaccgga ggggcagtgc

540

cgctcctccc aggggcagcg ccgaggtccc tgctgggtgtg tggatcggat gggcaagtcc

600

ctgccagggt

610

<210> 11

<211> 718

<212> DNA

<213> Homo sapiens

<400> 11

aaaccacac ctgcactttc agaagaagca tcctcatctt ctataaggga gcgaccacct

60

gaagaagttg cagctgcct tgcacaacag gaaaaacaag aacaagttaa aattgagtct

120

ctagccaaga gcttagaaga tgctctgagg caaactgcaa gtgtcactct gcaggctatt

180

gcagctcaga atgctgcggt ccaggctgtc aatgcacact ccaacatatt gaaagccgcc

240

atggacaatt ctgagattgc aggcgagaag aaatctgctc agtggcgcac agtggagggt

300

gcattgaagg aacgcagaaa ggcagtagat gaagctgccg atgcccttct caaagccaaa

360

gaagagttag agaagatgaa aagtgtgatt gaaaatgcaa agaaaaaaga ggttgctggg

420

gccaagcctc atataactgc tgcagagggt aaacttcaca acatgatagt tgatctggat

480

aatgtggtca aaaagggtcca agcagctcag tctgaggcta aggttgatatc tcagtatcat

540

gagctggtgg tccaagctcg ggatgacttt aaacgagagc tggacagtat tactccagaa

600

gtccttcctg ggtggaaagg aatgagtgtt tcagacttag ctgacaagct ctctactgat

660

gatctgaact ccctcattgc tcatgcacat cgtcgtattg atcagctgaa cagagagc

718

<210> 12

<211> 720

<212> DNA

<213> Homo sapiens

<400> 12

ggaccgtctg ctgggactcc ggccctgcgt ccgctcagcc ccgtggcccc gcgcacctac

60

tgccatggag acgcggcctc gtctcggggc cacctgtttg ctgggcttca gtttcctgct

120

cctcgtcatc tcttctgatg gacataatgg gcttggaag ggttttggag atcatattca

180

ttggaggaca ctggaagatg ggaagaaaga agcagctgcc agtggactgc ccctgatggt
240

gattattcat aaatcctggt gtggagcttg caaagctcta aagcccaaat ttgcagaatc
300

tacggaaatt tcagaactct cccataatth tggtatggta aatcttgagg atgaagagga
360

acccaaagat gaagatttca gccctgacgg ggggttatatt ccacgaatcc tttttctgga
420

tcccagtggc aaggtgcatc ctgaaatcat caatgagaat ggaaacccca gctacaagta
480

tttttatgtc agtgccgagc aagttgttca ggggatgaag gaagctcagg aaaggctgac
540

gggtgatgcc ttcagaaaga aacatcttga agatgaattg taacatgaat gtgccccttc
600

tttcatcaga gttagtgttc tggaaggaaa gcagcaggga agggaatatt gaggaatcat
660

ctagaacaat taagccgacc aggaaacctc attcctacct aactggaag gagcgctctc
720

<210> 13

<211> 779

<212> DNA

<213> Homo sapiens

<400> 13

cctgtaggct cccctgggtcc tctagctccc attcccccaa cgctgttggc ccctggcacc
60

ctgctgggcc ccaagcgtga ggtggacatg cccccccctc tgccccagcc tgtgcaccct
120
gatgtcacca tgaaaccatt gcccttctat gaagtctatg gggagctcat ccggcccacc
180
acccttgcat ccacttctag ccagcgggtt gaggaagcgc actttacctt tgccctcaca
240
ccccagcaag tgcagcagat tcttacatcc agagaggttc tgccaggagc caaatgtgat
300
tataccatac aggtgcagct aaggttctgt ctctgtgaga ccagctgccc ccaggaagat
360
tattttcccc ccaacctctt tgtcaaggtc aatgggaaac tgtgccccct gccgggttac
420
cttcccccaa ccaagaatgg ggccgagccc aagaggccca gccgccccat caacatcaca
480
cccctggctc gactctcagc cactgttccc aacaccattg tgggtcaattg gtcactctgag
540
ttcggacgga attactcctt gtctgtgtac ctggtgaggc agttgactgc aggaaccctt
600
ctacaaaaac tcagagcaaa gggatatccg aaccagacc actcgcgggc actgatcaag
660
gagaaattga ctgctgaccc tgacagtgag gtggccacta caagtctccg ggtgtcactc
720
atgtgcccgc tagggaagat gcgcctgact gtcccttgte gtgcctcac ctgcgccc
779

<210> 14
<211> 738
<212> DNA
<213> Homo sapiens

<400> 14
ggcgaggctt tgaggggcat gaaggaaaat ggaaggtatg ggcgccgcaa acaataccca
60
atctccttgg tattagcacc aacgagagag ttggcagtac agatctacga ggaagccaga
120
aaattttcat accgatctag agttcgtcct tgcgtggttt atgggtgggtgc cgatattggt
180
cagcagattc gagacttggga acgtggatgc catttgtag tagccactcc aggacgtcta
240
gtggatatga tggaaagagg aaagattgga ttagactttt gcaaatactt ggtgtagat
300
gaagctgacg ggatggtgga tatgggggtt gagcctcaga ttcgtagaat agtcgaacaa
360
gatactatgc ctccaaaggg tgtccgccac actatgatgt ttagtgctac ttttcctaag
420
gaaatacaga tgctggctcg tgatttctta gatgaatata tcttcttggc tgtaggaaga
480
gttggctcta cctctgaaaa catcacacag aaagtagttt ggggtggaaga atcagacaaa
540
cggtcatttc tgcttgacct cctaaatgca acaggcaagg attcactgac cttagtgttt
600
gtggagacca aaaagggtgc agattctctg gaggatttct tataccatga aggatacgca

660

tgtaccagca tccatggaga ccgttctcag agggatagag aagaggccct tcaccagttc

720

cgctcaggaa aaagccca

738

<210> 15

<211> 450

<212> DNA

<213> Homo sapiens

<400> 15

gaaaatcctc actctgagta cggcttcaca gacaacgttg agagaatagt agaaaatgag

60

aagattaatg cagaaaagtc atcaaagcag aaggtagatc tccagtcttt gccaaactcgt

120

gcctacctgg atcagacagt tgtgcctatc ttattacagg gacttgctgt gcttgcaaag

180

gaaagaccac caaatcccat tgaatttcta gcattcttate ttttaaaaaa caaggcacag

240

tttgaagatc gaaactgact taatgggaag aacagaaaaa tttagttgct actgtagatt

300

tacatgatta agaggcagct ttaattgccca tgatcattcc ctcttttttg atgtataaga

360

accttccgga caacagaccc tattttctgga attgcagaag ataacatatt tcccttattt

420

tgatttaatc accataaacc atacctattt

450

<210> 16

<211> 1269

<212> DNA

<213> Mus musculus

<400> 16

atggaggcaa tggcagccag cacctccctg cctgaccctg gtgactttga ccggaatgtg

60

cctcggatct gtggagtgtg tggagaccga gccacgggct tccacttcaa cgctatgacc

120

tgtgaaggct gcaagggttt cttcaggcgg agcatgaagc gcaaggccct gttcacctgc

180

cccttcaatg gagattgccg catcaccaag gacaaccggc gacactgcca ggccctgccg

240

ctcaaacgct gcgtggacat tggcatgatg aaggagttca tcctcacaga tgaggagggtg

300

cagcgtaagc gagagatgat catgaagagg aaggaggaag aggccttgaa ggacagtctg

360

aggcccaagc tgtctgagga gcaacagcac attatcgcca tcctgctcga tgcccaccac

420

aagacctacg accccaccta tgccgacttc cgggacttcc ggccctccaat tcgtgcagac

480

gtaagtacag ggagctattc tccaaggccc acactcagct tctccggaga ctctcctca

540

aactctgacg tgtacacccc ctactggac atgatggaac cggccagctt ttccacgatg

600

gatctgaatg aagaaggctc cgatgacccc tctgtgaccc tggacctgtc tccgctctcc
660

atgctgcccc acctggctga tcttgtcagt tacagcatcc aaaaggatcat cggctttgcc
720

aagatgatcc ctggcttcag ggacctcacc tctgatgacc agattgtcct gcttaagtca
780

agtgccattg aggtgatcat gttgcgctcc aaccagtctt ttaccttgga tgacatgtcc
840

tgggactgtg gcagccaaga ctacaaatat gacatcactg atgtctccag agctgggcac
900

accctggagc tgatcgaacc cctcataaag ttccagggtg ggctgaagaa gctgaacctc
960

catgaggaag aacatgtgct gctcatggcc atctgcattg tctccccaga cggacctggg
1020

gtacaggatg ctaagctggt tgaagccatt caggaccgcc tatccaacac actgcagacc
1080

tacatccgct gccgccaccc gccccgggc agccaccagc tctacgcca gatgatccag
1140

aagctggctg acctgcgaag cctcaatgag gagcactcca aacagtaccg ttccctctcc
1200

ttccagccgg agaacagcat gaagctcaca ccccttgtgc tagagggtgtt cggcaatgag
1260

atctcctga

1269

